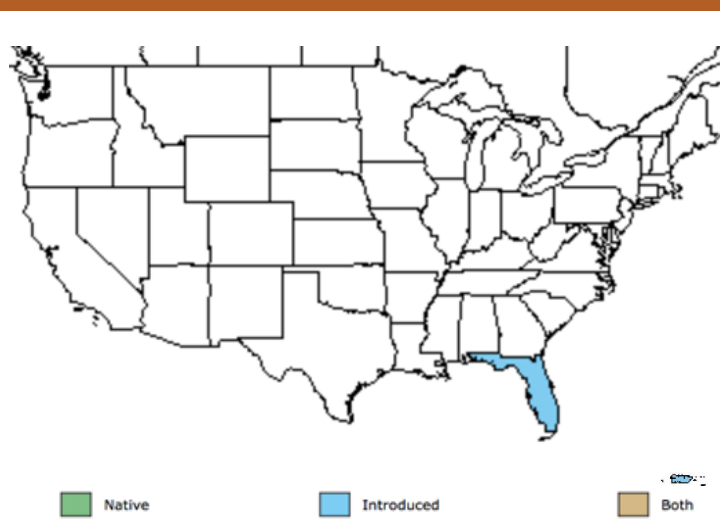


# USACE Invasive Plant Species Best Management Practices

## Anchored Waterhyacinth (*Eichhornia azurea*) - Pontederiaceae (Pickerel-weed)



### Habitat & Life History

Aquatic plant; rooted – Native to South America – OBL – Perennial forb/herb

### Integrated Management Strategy Selections

Prevention

Chemical

Biological

Cultural



#### PREVENTION

- Public awareness programs, establish competitive native alternatives



#### CHEMICAL CONTROL

- Herbicides—Minimal knowledge on efficacy of herbicides; other invasive species in genus responds to 2,4-D, bispyribac, diquat, glyphosate, imazamox, imazapyr, penoxsulam, triclopyr
- Use-pattern—foliar spray
  - \*Refer to product label for specific instructions on rate & use-pattern



#### BIOLOGICAL CONTROL

- Agent—*Neochetina bruchi* (chevroned waterhyacinth weevil); *N. eichhornia*, (mottled waterhyacinth weevil); *Niphograptus albiguttalis* (waterhyacinth moth); *Orthogalumna terebrantis* (waterhyacinth mite---native to US)
- Rearing/release—field collect & transport; viable plant materials may be required
- Potential biological agent—*Megamelus scutellaris* approved for *E. crassipes*



#### CULTURAL CONTROL

- Establish competitive native vegetation to offset invasion



#### MANAGEMENT SEQUENCING

- There are no definitive management recommendations due to limited supported scientific data



#### COMMENTS

- Excluding biological control, there is a lack of literature regarding other control options; similar control methods for *E. crassipes* may be viable



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